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PHOTOGRAPHIC INTERPRETATION REPORT



MISSION 4022
1 - 4 OCTOBER 1965

PART III

OCTOBER 1965

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88 PAGES

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TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

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OAK - PART III MISSION 4022

PREFACE

THIS IS THE THIRD AND FINAL OAK REPORT ON MISSION 4022 AND PROVIDES INFORMATION ON THOSE COMMITTEE ON OVERHEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH THE LETTER D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE FRAME NUMBER WITH AN INDEX NUMBER RUNNING CONSECUTIVELY FROM THE BEGINNING OF EACH PASS -- 4/8 FOR EXAMPLE, MEANS FRAME 4, INDEX 8. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE INDEX NUMBER TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE -- C (CLEAR), SC (SCATTERED CLOUDS), HC (HEAVY CLOUDS), H (HAZE), CS (CLOUD SHADOW), S (SNOW), O (OBLIQUITY), SD (SEMIDARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF PHOTOGRAPHIC COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS INDICATED BY ST (STEREO), NS (NON-STEREO), OR PS (PARTIAL STEREO).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERIS DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.

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Highlights

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HIGHLIGHTS

1. JABAL HAMZI SSM COMPLEX

GOOD PHOTOGRAPHY PERMITS DESCRIPTION AND IDENTIFICATION OF SEVERAL FEATURES NOT PREVIOUSLY REPORTED. THE FACILITY CONTAINS A COMBINATION LAUNCH/TEST STAND OF UNUSUAL DESIGN.

2. GOMEL FIXED FIELD MRBM SITE 1

LAUNCH RINGS AND WHEEL CHOCKS VISIBLE ON 2 OF THE LAUNCH POSITIONS.

3. KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER

MISSILE ACTIVITY/EXERCISES ARE OBSERVED AT LAUNCH SITES 1A-2, 2C-2, 3C AND 5C-1. A SLENDER TOWER IS DISCERNIBLE ADJACENT TO THE SW SILO AT SITE 4C-1. TWO POSSIBLE SHADDOCK TEL, 2 SS-5 FUEL TRANSPORTERS, 1 SS-5 MISSILE ON TRANSPORTER, AN ERECTOR AND 1 POSSIBLE SCAMP VISIBLE AT SITE 5C-1. A NEW BUILDING HAS BEEN CONSTRUCTED BETWEEN SITE 5C-1 AND 5C-2. A TOTAL OF 231 AIRCRAFT ARE DISCERNIBLE AT THE AKHTYUBINSK/VLADIMIROVKA AIRFIELD.

4. SARY-SHAGAN LNCH COMPLEX B

LAUNCH COMPLEX B IS COVERED IN ITS ENTIRETY BY GOOD STEREO PHOTOGRAPHY, THE BEST RECEIVED TO-DATE, AND MISSILES (OTHER THAN THOSE AT SAM SITE B27-2) ARE OBSERVED FOR THE FIRST TIME AT THE COMPLEX. AT LAUNCH FACILITY B, AN UNIDENTIFIED MISSILE IS OBSERVED ON EACH OF THE 2 RAIL-TYPE LAUNCHERS AT THE SEMICIRCULAR PADS B1 AND B2. THE TWO MISSILES APPEAR SIMILAR AND HAVE

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6. DNEPROPETROVSK MISSILE DEVELOP PROD CTR

MANY FEATURES NOT PREVIOUSLY REPORTED ARE EVIDENT. THE MOST SIGNIFICANT ARE A 4TH VERTICAL TEST STAND, A PROBABLE HYDROSTATIC TEST BUILDING, A PROBABLE PROPELLANT PREPARATION FACILITY AND A HORIZONTAL TEST STAND.

7. LENINGRAD NORTHWEST AMM/SAM LAUNCH COMPLEX

A LAUNCHER IS EMPLACED AT EACH LAUNCH POSITION OF SITES C, D AND E. THERE ARE NONE AT SITES A AND B. CAMOUFLAGE COVERS A PORTION OF THE REVETTED CENTER POSITION OF THE ELECTRONIC SITE AND THE AREAS WHERE VANS WERE PREVIOUSLY OBSERVED ADJACENT TO RADAR POSITIONS 1, 3, AND 4. A MOTTLED PATTERN HAS BEEN APPLIED TO SEGMENTS OF THE ELECTRONIC SITE SERVICE ROADS.

8. NOVAYA MEZINOVKA REGIONAL MIL STOR INSTLN

OVER 1,100 VEHICLES/PIECES OF EQUIPMENT AND 27 PROBABLE MISSILE CHECKOUT TENTS ARE IDENTIFIED. INCLUDED ARE SS-4 AND POSSIBLY SS-5 MISSILE TRANSPORTERS, PROBABLE SS-1 SCUD TRANSPORTERS, PROBABLE SS-4 AND SS-5 FUEL TRAILERS AND PROBABLE SS-4 OXIDIZER TRAILERS.

9. KOMSOMOLSK AIRFRAME PLT ORDZHONIKIDZE 126

IN THE NORTHWEST SECTION OF AIRFRAME PLANT 126 ARE 16 PROBABLE MISSILE AIRFRAMES

10. MOSCOW CENTRAL INSTITUTE OF AERO-ENGINES (AIRFIELD BONUS)

THE INSTITUTE IS LOCATED 6 NM WEST OF RAMENSKOYE FLIGHT TEST CENTER.

11. ELECTRONICS/COMMUNICATION (BONUS)

TWO TALL KING-AW RADAR FACILITIES ARE NEWLY IDENTIFIED. ONE IS LOCATED 2 NM WSW OF AYAGUZ, USSR, AT 47-56N 080-23E AND

A TALL KING-AD HEADQUARTERS FACILITY IS NEWLY IDENTIFIED 2.5 NM NE OF SOVETSKAYA GAVAN/VANINO AIRFIELD AT 49-03N 140-16E. NORTHEAST OF VORKUTA AT 67-31N 064-08E, A TALL KING FACILITY IS NEWLY IDENTIFIED.

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12. KHABAROVSK ORD DEPOT KRASNAYA RECHKA 154

FOUR SS-4 MISSILE ERECTORS, 67 SA-2 LAUNCHERS, 38 SA-2 TRANSPORTERS, 12 FLATBED TRACTOR TRAILERS, 120 CARGO TRUCKS (8 WITH TRAILERS), 27 VAN TRUCKS, 38 CANVAS-COVERED UNIDENTIFIED TRUCKS, 52 VAN TRAILERS, 28 PROBABLE FA PIECES, 147 AAA GUNS, AND APPROXIMATELY 500 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED.

13. GOLOVSHINO SENSITIVE OPERATIONS COMPLEX

BUILDINGS, ROADS AND APRONS IN THE OPERATIONS SUPPORT FACILITY

STATUS OF COMOR TARGET READOUT

EIGHTY-SEVEN COMOR TARGETS WERE OBSERVED DURING THE OAK REPORTING PERIOD AND ARE CONTAINED IN THIS OAK.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES --

TABLE 1 -- SOVIET ICBM DEPLOYMENT
TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
TABLE 3 -- SAM AND AMM/SAM DEPLOYMENT
TABLE 4 -- NUCLEAR ENERGY ACTIVITY
TABLE 5 -- AIRCRAFT ACTIVITY
TABLE 6 -- SUBMARINE ACTIVITY
TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

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Table 1. Soviet ICBM Deployment MISSION (4022)

Complex	Launch Area																			Total Silo Stem	Total Hard Stem	Total Single Silo	Total Launch Positions	Last Effective Coverage
Aleeyk	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	6	6	6	6	Sep/Oct 65
Demberovskiy	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	11(14)	11(14)	11(14)	11(14)	Jul 65
Drovyanskaya	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	3	23	20	35	Aug 65
Gladkaya	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	2	19 (74)	18 (74)	25 (74)	Sep 65
Imeni Gantello	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	11	11	11	11	Aug 65
Izaka	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	3			6	Jul 65
Kazaly	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	13(24)	13(24)	13(24)	13(24)	Aug 65
Kovtuna	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	6	1		15	Sep 65
Kozelsk	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	3	2		12	Sep/Oct 65
Kovtunskiy	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	3	2		12	Sep/Oct 65
Kovtunskiy	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	38	35	44	44	Aug 65
Omok	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	1			3	Sep 65
Pern	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	5	15(34)	14(34)	27(34)	Jun 65
Plesetsk*	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	10*	1		19	Sep 65
Shadrinsk	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	3			9	Jun 65
Sverdlovsk	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	7	1		17	Sep/Oct 65
Tatishchevo	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	36 (44)	36 (44)	36 (44)	36 (44)	Sep 65
Teykovo	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	6			12	Sep 65
Tyumen	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	1			4	Jun 65
Uzher	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	17	17	17	17	Sep 65
Verkhnyaya Salda	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	7	2		20	Sep/Oct 65
Vedrovo	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	6	2		18	Sep/Oct 65
Yoshkar-Ola	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	6			12	Jul 65
Yurya	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	8	3		25	Jul 65
Zhangzi-Tobe	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	HIC	11 (14)	11 (14)	11 (14)	11 (14)	Sep/Oct 65
Iyuratom ATC	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	12	21	19	49	Sep/Oct 65
Deployment Total																				77	218 (184)	192 (184)	420 (184)	
Grand Total																				89	239 (184)	211 (184)	469 (184)	

*Include Launch 1/101-1/102, complete, but does not include 2 SSN pads at Launch Area 1

Construction Status: C-complete, L-late, M-mid, E-early

**Carried as Launch Group

* Possible

□ Newly identified

★ Dropped From Listings

○ Covered by current mission

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Table 2. Soviet MRBM and IRBM Deployment

Geographic Area	Soft MRBM Launch Areas	Soft IRBM Launch Areas	Hard MRBM Launch Areas	Hard IRBM Launch Areas	Total Launch Areas	Total Launch Positions
Western	120	11	18	10	159	624
Caucasus	3		2	3	8	29
Central Asia	2	3	1	3	9	33
Far Eastern	10	1		1	12	47
Totals	135	15	21	17	188	733

Totals do not include 93 fixed field-type sites with total of 348 launch positions and one launch facility at Sovetskaya Gavan.

Table 3. SAM and AMM/SAM Deployment

					Country																
					USSR	Albania	Bulgaria	Czechoslovakia	Hungary	Poland	Rumania	Yugoslavia	China	North Korea	Indonesia	Egypt	Cuba	India	North Vietnam	Totals	
SAM sites	SA-1	56																		56	Confirmed
		1																	1	Probable	
		1029*	2	19	23	16	30	18	4	16	2	5	27	22**	11	24	1301	Confirmed			
		6			1					1						1		9	Probable		
SA-2	9													1					3	Possible	
	109													1	1				11	Training	
	3					1													4	Confirmed	
	2																		2	Probable	
SA-2 SAM Support Facilities	193	1	4	6	3	6	2			1	1	4	6	3					234	Confirmed	
	1						1												3	Probable	
	1							1											2	Possible	
	12																		12	Confirmed	
SA-3 SAM Assembly Facilities																					Confirmed
																					Probable
AMM/SAM Complexes		8																		8	Confirmed
																					Probable
																					Possible

*Does not include alternate sites, USSR.

**Does not include 29 abandoned sites.

TOTALS AS OF MISSION (4022)

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Table 3 Aircraft Activity

PREVIOUS SIGNIFICANT AIRCRAFT COUNT										OBSERVED THIS MISSION (4022)										PREVIOUS SIGNIFICANT AIRCRAFT COUNT										OBSERVED THIS MISSION (4022)									
Airfield	Last Effective Coverage	BEAR	BIGON	BLINDELL	BLINDELL	MANORAKE	TOTALS	BEAR	BIGON	BLINDELL	BLINDELL	MANORAKE	TOTALS	Airfield	Last Effective Coverage	BEAR	BIGON	BLINDELL	BLINDELL	MANORAKE	TOTALS	BEAR	BIGON	BLINDELL	BLINDELL	MANORAKE	TOTALS												
Abkhazsk/Vladimirovsk	Sep 65	11/11	5	28	34		74	26	2	6	28	38	74	Nechin	Sep 65		1				1																		
Alkheyevsk	Aug 65			51			51					57	57	Nikolayev/Kalushino	Oct 65		50																						
Amshy/Leninka	Sep 65			7			7				6		6	North/Northeast	Jul 65						0																		
Antons Gerdaliche	Sep 65			45			45							Olkhovskoye	Aug 65		17				17																		
Arkhazsk/Kholm	Jul 65			23			23							Glenskorsk *	Aug 65		34				3																		
Artem North	Jul 65			30			31							Gruba-Southeast *	Oct 65		36				36			35		35													
Baranovichi *	Sep 65		104	174			31							Qutrov/Gutakhovka	Oct 65		24				24																		
Belaya	Mar 65			52			53							Qutrov Green-Hell	Mar 65						0																		
Belaya Luchkov	Aug 65	4		528			60							Porogovskaya/Yelzovo	Jan 65		10				10																		
Beltrusk *	Oct 65			56			56							Poltava *	Sep 65		64				64																		
Brzha Northwest	Aug 65			49			9							Perla *	Oct 65		49				49																		
Bykhov *	Oct 65			52			52							Ramenskoye FIC	Sep 65	2	2	7	15		30	1	6	7	16		30												
Cherpyevsk *	Oct 65	11					33	18						Rumanskova West	Jun 65			21			21																		
Cherpyevsk/Chimkovo *	Mar 65			8			8							Ryazan/Dnyapetro	Sep 65			1			1																		
Dubov *	Aug 65	18					37	40						Saki	Oct 65		16				16																		
Dugla *	Sep 65	35		1			39							Strabuz	Oct 65		31				31			30		30													
Gedmana	Mar 65						0							Sveremorsk	Jun 65	18		594			62																		
Gemel/Priyutsk	Oct 65		40	17			57							Stalinsk *	Sep 65						4																		
Kalinin *	Sep 65			55			55							Stroy *	Oct 65		58				58																		
Kalininsk/Prometey	Aug 65		20	5			25							Syazek-Dubny East	Jun 65						0																		
Karavay *	Oct 65			26			26							Szyg *	Aug 65		27				27																		
Kazan Airframe Plant Gorkovsk 22	Jul 65		114	128			21							Taru	Oct 65		15				15			15		15													
Khorol East	Jun 65						0							Tkhal West	Oct 65						0																		
Kholovsk	Jul 65			25			25							Ukraina *	Sep 65		40	13			53																		
Malinsk	Oct 65						0							Usovskiy/Vozdubzhka *	Jul 65			49			53																		
Minik/Macholichko *	Aug 65		18	4			22							Zhitomir/Dumovskaya *	Sep 65		30				30																		
Mirgorod	Oct 65			30			30																																
Novos *	Aug 65	21					21	22																															
Novoskoye	Mar 65						0																																
TOTALS														51	78	114	1192	40		254	105	8	13	187	38		347												
														P4 B/H																									

**NUCLEAR W/AFSTORAGE	1 PROBABLE	4 PROBABLE	**BACKLOG/CAMEL	B/C BEAR/CLIA1	B/D BEAR/BIGON	B/M BEAR/CLIA1/MAJORAKE
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*UNRELIABLE W/ APPROX STORAGE

*UNRELIABLE

*PROBABLE

**UNRELIABLE/CAMEL

B/C BLAR/CL LAL

B/B BLAR/BLINSON

B/M BLAR/BLINSON

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Missiles

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MISSILES

JABAL HAMZI SSM COMPLEX

EG 3007N 03037E

GOOD PHOTOGRAPHY PERMITS DESCRIPTION AND IDENTIFICATION OF SEVERAL FEATURES NOT PREVIOUSLY REPORTED. THE FACILITY CONTAINS A COMBINATION LAUNCH/TEST STAND OF UNUSUAL DESIGN. THE STAND IS A DARK COLORED, MASSIVE CONCRETE STRUCTURE OVERHANGING THE SLOPE OF A LOW HILL. AN UNUSUALLY LONG FLAME BUCKET PROJECTS FROM BENEATH THE FLOOR TOWARD THE NE. A TIE-DOWN POSITION LOCATED NEAR THE NE EDGE OF THE STAND APPEARS TO BE RAISED ABOVE THE FLOOR. THE LACK OF MASSIVE SUPERSTRUCTURE NORMALLY FOUND ON ENGINE TEST STANDS IS PROBABLY INDICATIVE OF THE DUAL PURPOSE OF THE STAND. A DARK X-SHAPED MARK IS LOCATED APPROXIMATELY 440 FT TO THE SW AT THE END OF A RAMP LEADING TO THE FLOOR OF THE STAND. TWO OTHER SUCH MARKS ARE ALSO OBSERVED IN THE AREA, AND ARE ALIGNED WITH THE FIRST MARK IN A GENERALLY WNW LINE.

THE SUPPORT AREA CONTAINS A LARGE IRREGULAR-SHAPED OPERATIONS/ADMINISTRATION BUILDING, 4 SMALL PARALLEL QUONSET BUILDINGS, 1 RECTANGULAR SUPPORT BUILDING, 1 L-SHAPED PROBABLE CHECKOUT BUILDING, 4 BUILDING FOUNDATIONS, 13 OTHER SUPPORT BUILDINGS AND 3 SMALL BUILDINGS UNDER CONSTRUCTION.

A POSSIBLE MISSILE ON A TRANSPORTER IS LOCATED NEAR THE NE END OF THE L-SHAPED CHECKOUT BUILDING. THE MISSILE APPEARS AS A WHITE OBJECT APPROXIMATELY [REDACTED] IN LENGTH WITH 2 BLACK STRIPES PAINTED AROUND THE BODY NEAR THE ENGINE END. THE MISSILE GIVES THE APPEARANCE OF HAVING UNUSUALLY LARGE FINS.

(SEE ATTACHMENT)

SOVETSKAYA GAVAN MRBM LAUNCH FACILITY

UR 4904N 14007E

NO NEW CONSTRUCTION OR CHANGES IN FACILITIES SINCE [REDACTED] TWO PROBABLE MISSILE TRANSPORTERS, 1 PROBABLE MISSILE ERECTOR UNDER CANVAS, 1 UNIDENTIFIED OBJECT AND 5 CARGO VEHICLES ARE OBSERVED ON THE WESTERMOST LAUNCH PAD. ONE MISSILE READY TENT IS OBSERVED ON THE EASTERN LAUNCH PAD. ON THE CENTER LAUNCH PAD ARE 8 UNIDENTIFIED VEHICLES. NO ACTIVITY IS

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DISCERNIBLE ON THE NORTHERNMOST PAD.

(SEE ATTACHMENT)

GOMEL FIXED FIELD MRBM SITE 1

UR 5220N 03051E

NO MISSILES OBSERVED. LAUNCH RINGS AND WHEEL CHOCKS VISIBLE ON 2 OF THE LAUNCH POSITIONS. A SMALL CIRCULAR EXCAVATION IS VISIBLE IN THE CENTER OF 1 OF THE LAUNCH POSITIONS. A SMALL POSSIBLE STRUCTURE IS PRESENT AT 2 OF THE POSITIONS.

(SEE ATTACHMENT)

KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR

UR 4835N 04545E

NO NEW MISSILE FACILITIES OBSERVED IN CLEAR PORTIONS OF PHOTOGRAPHY.

FOR READOUT OF AKHTUBINSK/VLADIMIROVKA AIRFIELD.

KAPUSTIN YAR LAUNCH COMPLEX A

UR 4842N 04615E

NO APPARENT CHANGE IN LAUNCH FACILITIES. AN EXERCISE IS UNDER WAY AT LAUNCH SITE 1A-2. THREE, AND POSSIBLY 4, SMALL VEHICLES ARE ON THE PAD, 8 ARE IMMEDIATELY NORTH OF THE PAD, AND 3 LARGE AND 6 SMALL POSSIBLE VEHICLES ARE NORTH OF THE DRIVE-IN REVETMENTS.

THERE ARE UNIDENTIFIED VEHICLES IN THE LARGE AND THE SMALL ASSEMBLY AND CHECKOUT AREAS, AND IN THE MOTOR POOL AT THE HOUSING AREA.

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KAPUSTIN YAR LAUNCH COMPLEX B

UR 4841N 04616E

NO MISSILES, MISSILE-RELATED EQUIPMENT, OR CHANGES IN FACILITIES OBSERVED. SEVERAL SMALL VEHICLES OBSERVED IN THE COMPLEX.

NO ACTIVITY OBSERVED IN BIVOUAC AREA SW OF COMPLEX.

KAPUSTIN YAR LNCH COMPLEX C (SITES 2,4-9) UR 4836N 04616E

LAUNCH AREA 1C (SITE 7) -- IN ADDITION TO THE RAIL-SERVED ERECTORS ON 1C-2 AND 1C-3, AT LEAST 6 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE IN THE LAUNCH AREA AND AT LEAST 3 ARE ON THE HEXAGONAL APRON IN THE 1C FINAL CHECKOUT AREA.

LAUNCH AREA 2C (SITE 6) -- AN SS-4 EXERCISE IS UNDERWAY ON PAD 2C-2. A TRANSPORTER, ERECTOR, 2 OXIDIZER TRANSPORTERS, 1 FUEL TRANSPORTER, AND 16 ADDITIONAL SUPPORT VEHICLES OBSERVED. A PROBABLE MISSILE SERVICE TOWER AND UNIDENTIFIED STRUCTURE AND 2 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE ON PAD 2C-1. THE OPEN DITCH OBSERVED ON [REDACTED] HAS BEEN BACKFILLED AND 1 NEW BUILDING HAS BEEN COMPLETED IN THE SUPPORT AREA. A OPEN DITCH EXTENDS NORTH AT THE LAUNCH AREA TO A RECTANGULAR WASTE POND.

LAUNCH AREA 3C (SITE 5) -- A MISSILE-READY TENT AND 6 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE ON THE SW DUMBBELL. THREE VEHICLES/PIECES OF EQUIPMENT ARE ADJACENT TO THE ONLY REMAINING TRAINING-MISSILE MOCKUP. THREE EMPTY MISSILE TRANSPORTERS (1 POSSIBLE) AND 8 UNIDENTIFIED VEHICLES ARE IN THE 3C FINAL CHECKOUT AREA.

LAUNCH AREA 4C (SITE 4) -- THE RAIL EXTENDS TO THE LEFT REAR SILO WHICH IS OPEN. A SLENDER TOWER IS ADJACENT TO THIS SILO. THE TWO FORWARD SILOS ARE BOTH OPEN AND APPEAR IDENTICAL. THE 65 FT-HIGH STRUCTURE IS MOVED FORWARD OF THE SILO AND AT LEAST 20 VEHICLES/PIECES OF EQUIPMENT ARE WITHIN THE SITE.

IN LAUNCH SITE 4C-2 THE SILOS ARE ALL CLOSED. ONE EMPTY SS-5 TRANSPORTER, 2 POSSIBLE TRANSPORTERS, AND 8 VEHICLES/PIECES OF EQUIPMENT ARE WITHIN THE SITE. A PROBABLE SS-5 ON A TRANSPORTER, 1 SUSPECT ERECTOR, AND

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1 UNIDENTIFIED VEHICLE ARE ON THE ROAD LEADING FROM THE SITE.

LAUNCH AREA 5C (SITE 2) -- A SS-5 MISSILE ON A TRANSPORTER AND AN ERECTOR ARE ON THE NORTH PAD IN LAUNCH SITE 5C-1. TWO POSSIBLE SHADDOCK TEL AND 2 UNIDENTIFIED VEHICLES ARE PARKED IN FRONT OF THE ROAD PATTERN WITHIN THE SITE. TWO SS-5 FUEL TRANSPORTERS AND 4 UNIDENTIFIED VEHICLES ARE PARKED ON THE APRON IN THE FRONT OF THE SITE ROAD PATTERN. A POSSIBLE SCAMP IS ON AN APRON WITHIN THE SITE. FOUR ADDITIONAL UNIDENTIFIED VEHICLES ARE WITHIN THE SITE. A NEWLY IDENTIFIED RECTANGULAR STEP-ROOFED BUILDING IS LOCATED BETWEEN LAUNCH SITES 5C-1 AND 5C-2 BUT IS WITHIN THE 5C-1 FENCE. A CIRCULAR EXCAVATION AND A POSSIBLE VEHICLE ARE ADJACENT TO THIS BUILDING. UNIDENTIFIED CONSTRUCTION ACTIVITY IS STILL UNDERWAY ON THE SOUTHERN PAD OF LAUNCH SITE 5C-1. LAUNCH SITE 5C-2 REMAINS ABANDONED.

MISSILE ASSEMBLY AND CHECKOUT AREA -- NO APPARENT CHANGE IN FACILITIES. AT LEAST 12 RAILROAD CARS AND AT LEAST 20 VEHICLES/PIECES OF EQUIPMENT ARE WITHIN THE AREA.

WARHEAD AREAS -- 3 LONG AND 7 SMALLER RAILCARS ARE WITHIN THE WESTERN AREA. TWENTY VEHICLES ARE PARKED IN THE INNER SECURED AREA. FOUR SMALL VEHICLES ARE IN THE EASTERN AREA.

ADMINISTRATION, HOUSING AND SERVICES AREA -- APPROXIMATELY 45 VEHICLES OF VARYING SIZES ARE LOCATED THROUGHOUT THE SOUTHERN AREA.

SSM BIVOUAC AREA -- AT LEAST 80 VEHICLES/PIECES OF EQUIPMENT ARE IN THE PARKING AREA.

NO OTHER CHANGES IN PERMANENT FACILITIES OBSERVED.

PHOTO REFERENCES FOR SIGNIFICANT ITEMS OBSERVED ON PASS

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KAPUSTIN YAR LAUNCH COMPLEX D (SITE 1) UR 4828N 04618E

NO CHANGE IN FACILITIES AT THE COMPLEX.

A LARGE UNIDENTIFIED VEHICLE IS ON LAUNCH PAD AT 1D-3, APPROXIMATELY 15 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE ON PARKING APRON AT 2D, AND A LARGE UNIDENTIFIED OBJECT IS ON HARDSTAND.

NO APPARENT CHANGE OR EQUIPMENT OBSERVED AT COMPLEX D FINAL ASSEMBLY AND CHECKOUT AREA.

PHOTO REFERENCES FOR SIGNIFICANT ITEMS OBSERVED ON PASS

KAPUSTIN YAR LAUNCH COMPLEX G

UR 4822N 04617E

NO APPARENT CHANGE IN LAUNCH AREA, SUPPORT AND HOUSING AREA, AND 2 TRACKING SITES WEST OF COMPLEX G. THE SA-2 SITE SSW OF THE SUPPORT AND HOUSING AREA IS OCCUPIED. RADAR MOUNDS AT 2 TRACKING SITES ARE UNOCCUPIED. TEN UNIDENTIFIED VEHICLES ARE OBSERVED WITHIN HOUSING AND SUPPORT AREA.

KAPUSTIN YAR MISSILE STOR & HANDLING AREA UR 4822N 04612E

NO NEW CONSTRUCTION, CHANGES IN FACILITIES OR FEATURES NOT PREVIOUSLY REPORTED. MORE THAN 20 UNIDENTIFIED VEHICLES OBSERVED WITHIN THE SECURED AREA.

SARY-SHAGAN ANTIMISSILE TEST CENTER

UR 4602N 07334E

NO NEW MISSILE FACILITIES OBSERVED NEAR LAUNCH COMPLEX B, INSTRUMENTATION SITES 4 AND 14, THE ONLY PORTIONS OF THE CENTER COVERED BY PHOTOGRAPHY.

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SARY-SHAGAN LNCH COMPLEX B (SITE 1B14) UR 4559N 07231E

LAUNCH COMPLEX B IS COVERED IN ITS ENTIRETY BY GOOD STEREO PHOTOGRAPHY, THE BEST RECEIVED TO-DATE. MISSILES (OTHER THAN THOSE AT SAM SITE B27-2) ARE OBSERVED FOR THE FIRST TIME AT THE COMPLEX. FOUR PROBABLE LAUNCH POSITIONS CAN BE IDENTIFIED WITHIN THE TRIAD AREA. LINEAR MEASUREMENTS INCLUDED IN THIS REPORT ARE CONSIDERED ACCURATE TO PLUS OR MINUS 5 FT, HEIGHT MEASUREMENTS TO PLUS OR MINUS 10 FT.

NO SIGNIFICANT CHANGE IS OBSERVED AT LAUNCH FACILITY A EXCEPT FOR THE APPEARANCE OF 2 ERECTORS ALONG THE ROAD JUST EAST OF THE LAUNCH PAD. ONE OF THESE ERECTORS APPEARED ONE ERECTOR IS APPROXIMATELY 45 FT HIGH AND THE OTHER 60 FT HIGH. THE LAUNCHER ON THE PAD APPEARS UNCHANGED AND UNOCCUPIED.

AT LAUNCH FACILITY B, AN UNIDENTIFIED MISSILE IS OBSERVED ON EACH OF THE 2 RAIL-TYPE LAUNCHERS AT THE SEMICIRCULAR PADS B1 AND B2 (THE FIRST IDENTIFICATION OF MISSILES AT THESE SITES). THE LAUNCHER ON B1 IS

THE TWO MISSILES APPEAR SIMILAR AND HAVE AN OVERALL BOOSTER LENGTH CONFIGURATION DETAILS ARE NOT SUFFICIENTLY CLEAR TO PERMIT IDENTIFICATION OF THE MISSILE. THE 2 PIECES OF SERVICING EQUIPMENT IDENTIFIED ADJACENT TO B2 ARE NO LONGER PRESENT. ONE PIECE HAD LEFT THE AREA BY AND THE SECOND PIECE BY THEY WERE PROBABLY BOTH MOVED TO LAUNCH FACILITY A AND ARE NOW IDENTIFIED AS ERECTORS SINCE THE TIME PERIOD COINCIDES AND THE CONFIGURATION IS GENERALLY SIMILAR. SEPARATION DISTANCE BETWEEN LAUNCHERS ON PADS B1 AND 2 IS 650 FT. APPROXIMATELY 440 FT NORTH OF B2 AND B4 ARE 2 PROBABLE ANTENNAS. PADS B3 AND B4 ARE EACH CONSTRUCTED ALONG A SLIGHTLY WIDENED PORTION OF THE LOOP ROAD AND ARE EACH SURROUNDED BY 3 TOWERS. TWO OF THE TOWERS NEAR B3 ARE 55 FT HIGH, ONE IS 65 FT HIGH. THE 3 TOWERS NEAR B4 ARE APPROXIMATELY 100 FT HIGH. A 100-FOOT TOWER IS POSITIONED MIDWAY BETWEEN PADS B3 AND B4. B3 IS SERVED

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BY PROBABLE RAILS AND HAS AN APPROXIMATELY 25-FT-HIGH PASS-THROUGH ERECTOR AT THE SITE. RAILS ARE NOT DISCERNIBLE AT B4. THE PASS-THROUGH ERECTOR HERE APPEARS TO BE LARGER AND TALLER (30 FT) THAN THE ONE AT B3 AND HAS AN ADDITIONAL PIECE OF EQUIPMENT/STRUCTURE DEPLOYED ALONGSIDE. SEPARATION DISTANCE BETWEEN ERECTORS AT B3 AND B4 IS 580 FT. THREE POSSIBLE INSTRUMENTATION POSITIONS CAN BE IDENTIFIED ON THE CROSSBAR OF A T-SHAPED PATTERN ADJACENT TO THE NORTH SIDE OF B4.

THE ENVIRONMENTAL DOMES ON THE 3 TRIAD BUILDINGS APPEAR EXTERNALLY COMPLETE. THE SCAFFOLDING HAS BEEN REMOVED FROM THE 3 DOMES AND A SURFACING MATERIAL APPEARS TO HAVE BEEN ADDED [REDACTED] RESULTING IN A SMOOTH DARK FINISH. CRANES REMAIN AT THE 3 BUILDINGS, THE ONE ADJACENT TO BUILDING A IS A RAIL-SERVED GENTRY TYPE. BUILDING A HAS AN APPROXIMATE HEIGHT OF 40 FT, THE DOME ON ITS ROOF HAS AN ADDITIONAL HEIGHT OF 120 FT. THE MAXIMUM DIAMETER OF THE DOME IS 115 FT. THE DOMES ON BUILDINGS B AND C ARE IDENTICAL IN SIZE. BUILDING D IS 16 FEET HIGH. JUST WEST OF BUILDINGS B AND C ARE 2 TOWERS WITH A POSSIBLE ANTENNA MOUNTED ON EACH. CRATES HAVE APPEARED ALONG THE WEST CENTRAL TRIAD BOUNDARY [REDACTED] JUST OUTSIDE THE SECURED TRIAD AREA AND CLOSE TO THE NW CORNER ARE 4 CIRCULAR EXCAVATIONS, EACH 20 FT IN DIAMETER, POSSIBLY FOUNDATIONS FOR A TOWER BASE. JUST EAST OF THIS FACILITY AND INSIDE THE SECURED AREA A TRENCH HAS BEEN DUG A DISTANCE OF APPROXIMATELY 1,000 FT TO A POINT JUST NORTH OF TRIAD BUILDING B. A POSSIBLE COOLING UNIT IS LOCATED JUST SOUTH OF BUILDING A. THE 110-KV POWERLINE WHICH HAS BEEN UNDER CONSTRUCTION TO THE TRIAD AREA HAS NOW REACHED THE SUBSTATION NEAR THE SW CORNER AND BURIED POWERLINES HAVE BEEN EXTENDED NORTH TO BUILDING A AND EAST TO AN UNIDENTIFIED 150-FT TOWER. THIS COVERAGE HAS PERMITTED IDENTIFICATION OF 4 PROBABLE LAUNCH POSITIONS NEAR TRIAD BUILDINGS B AND C, WHICH ARE SIMILAR TO PADS B3 AND B4 IN LAUNCH FACILITY B. ONE PROBABLE LAUNCH POSITION HAS BEEN DEVELOPED 215 FT NORTH OF TRIAD BUILDING B. PROBABLE RAILS HAVE BEEN ADDED, AND CABLES TO THE POSITION HAVE BEEN BURIED [REDACTED] TWO PREVIOUSLY OBSERVED PIECES OF EQUIPMENT CAN NOW BE IDENTIFIED AS A PROBABLE PASS-THROUGH ERECTOR 30 FT HIGH WHICH IS SIMILAR TO THOSE OBSERVED AT LAUNCH PADS B3 AND B4. TWO 50-FT HIGH TOWERS ARE DEPLOYED JUST NORTH AND SOUTH OF THE POSITION. THE OTHER 3 PROBABLE LAUNCH POSITIONS ARE SITUATED 320 AND 250 FT ESE AND ENE OF TRIAD BUILDING C

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AND 1 IS 220 FT EAST OF TRIAD BUILDING B. CIRCULAR EXCAVATIONS (25 FT [REDACTED] IN DIAMETER) OBSERVED AT THE 2 SOUTHERN PROBABLE LAUNCH POSITIONS DO NOT APPEAR TO HAVE CHANGED IN APPEARANCE [REDACTED] ALL PROBABLE LAUNCH POSITIONS ARE CABLE-CONNECTED. SPACING DISTANCES BETWEEN THE 4 PROBABLE LAUNCH POSITIONS FROM SOUTH TO NORTH ARE 330 FT, 490 FT, AND 470 FT.

NO CHANGE IS APPARENT [REDACTED] IN FACILITIES AT THE MISSILE STORAGE AND CHECKOUT AREA. THREE PROBABLE CANVAS-COVERED VEHICLES/PIECES OF EQUIPMENT (EACH APPROXIMATELY 50 BY 10 FT) ARE PARKED IN THE AREA. NO SIGNIFICANT CHANGE IS OBSERVED IN THE MAIN SUPPORT AREA OR THE AIRSTRIP [REDACTED] APPROXIMATELY 30 VEHICLES/PIECES OF EQUIPMENT ARE PARKED IN THE SUPPORT AREA.

INSTRUMENTATION SITE B1 HAS 7 BUILDINGS (2 OF WHICH SUPPORT POSSIBLE VHF ANTENNAS), 4 SMALL BUILDINGS OR STRUCTURES, 1 BURIED TANK, 2 POSSIBLE ELECTRONIC VANS, AND 3 VEHICLES.

INSTRUMENTATION SITE B2 CONSISTS OF 4 SMALL TOWERS, 1 LARGE TOWER, AND 3 SMALL BUILDINGS/STRUCTURES.

SITE B3 HAS 3 BUILDINGS. NO ANTENNAS COULD BE IDENTIFIED AT SITES B2 AND 3. ONE POSSIBLE ANTENNA IS OBSERVED AT SITE B4.

AT SAM SITE B27-2, TWO LAUNCH POSITIONS ARE OCCUPIED WITH LAUNCHERS AND MISSILES, 4 ARE OCCUPIED WITH LAUNCHERS WITHOUT MISSILES. TWO CANVAS-COVERED TRANSPORTERS OCCUPY ONE HOLD POSITION, 1 CANVAS-COVERED TRANSPORTER OCCUPIES THE SECOND HOLD POSITION, AND THE THIRD IS OCCUPIED BY A MISSILE. THE ACQUISITION RADAR IS PRESENT AND THE CENTRAL GUIDANCE AREA IS OCCUPIED BY A IFAN SONG RADAR.

PHOTO REFERENCES FOR SIGNIFICANT ITEMS [REDACTED]

LAUNCH FACILITY A -- [REDACTED]

LAUNCH FACILITY B -- [REDACTED]

TRIAD -- [REDACTED]

SUPPORT AREA -- [REDACTED]

(SEE ATTACHMENT)

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SARY-SHAGAN INSTRUMENTATION SITE 4

UR 4557N 07213E

ONLY THE HOUSING/SUPPORT AREA, APPROXIMATELY 25 PERCENT OF THE INTERFEROMETER, AND THE AIRSTRIIP ARE COVERED BY NON-STEREO PHOTOGRAPHY ON THE EDGE OF THE FRAME.

NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]
DEC 64. NO ACTIVITY AT THE AIRSTRIIP.

SARY-SHAGAN INSTRUMENTATION SITE 14

UR 4707N 06910E

THIS SITE IS FULLY COVERED BY GOOD, STEREO PHOTOGRAPHY. THE LARGE E-SHAPED BUILDING APPEARS EXTERNALLY COMPLETE, BUT NO ELECTRONIC EQUIPMENT CAN BE IDENTIFIED ON THE WINGS. THE WING STRUCTURES CONSIST OF A RAISED PORTION ON THE MAIN BUILDING, A LOWER MIDDLE SECTION, AND A RAISED PORTION AT THE END. TWO SMALL T-SHAPED BUILDINGS, LOCATED EAST AND WEST OF THE E-SHAPED BUILDING, APPEAR TO HAVE PROBABLE ANTENNA/ELECTRONIC MOUNTS ON THE ROOF. TWO SMALL PROBABLE SPHERICAL STRUCTURES ARE LOCATED JUST SOUTH OF THE WING OF THE E-SHAPED BUILDING. A PROBABLE MICROWAVE TOWER IS OBSERVED JUST NORTH OF THIS BUILDING. THREE PROBABLE RADAR/ELECTRONIC MOUNDS WITH ASSOCIATED VEHICLE TRENCHES ARE LOCATED WEST OF THE SITE OUTSIDE THE SECURED AREA. ONE MOUND, NEAR THE SW CORNER OF THE SECURED AREA, IS OCCUPIED BY A TALL TOWER-LIKE STRUCTURE. WORK CONTINUES ON THE INTERFEROMETER WITH 3 ELEMENTS, POSSIBLY DOME-COVERED, LOCATED ON EACH OF THE ARMS. NO AIRCRAFT OBSERVED AT THE AIRSTRIIP. APPROXIMATELY 20 VEHICLES/PIECES OF EQUIPMENT AND 1 PROBABLE CRANE ARE LOCATED AT THE SITE.

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(SEE ATTACHMENT)

MAGADAN SUSPECT MISSILE TEST FACILITY UR 6027N 15127E

SECURED FACILITY IS A PROBABLE EXPLOSIVE STORAGE AREA AND CONTAINS SEVERAL REVETTED BUILDINGS. HEAVY CLOUDS PRECLUDES FURTHER INTERPRETATION.

MAGADAN SUSPECT MISSILE TEST FACILITY UR 5942N 15104E

THIS IS A PROBABLE AGRICULTURAL CENTER CONSISTING OF APPROXIMATELY 20 BUILDINGS INCLUDING A U-SHAPED PROBABLE ADMINISTRATION BUILDING, BARRACKS, AND AN E-SHAPED PROBABLE LIVESTOCK BARN. CLOUDS PRECLUDE FURTHER INTERPRETATION.

DNEPROPETROVSK MISSILE DEVELOP PROD CTR UR 4826N 03459E

NO NEW CONSTRUCTION NOTED IN THE 2 PRODUCTION PLANTS. CONSTRUCTION ACTIVITY IS OBSERVED OUTSIDE THE EASTERN END OF THE SOUTH PRODUCTION PLANT. AN UNDERGROUND STEAM LINE CONNECTING THIS AREA AND THE TEST FACILITY IS UNDER CONSTRUCTION. IN THE TEST FACILITY, CONSTRUCTION CONTINUES ON AN UNDERGROUND TANK AND AN ADJACENT STRUCTURE NEAR THE SE CORNER.

MANY FEATURES NOT PREVIOUSLY REPORTED ARE EVIDENT. THE MOST SIGNIFICANT ARE A 4TH VERTICAL TEST STAND (SOMEWHAT SMALLER THAN THE OTHERS) AND A PROBABLE HYDROSTATIC TEST BUILDING (BOTH EAST OF BUILDING 20), A PROBABLE PROPELLANT PREPARATION FACILITY (FORMERLY LABELED BUILDING 12), AND A HORIZONTAL TEST STAND (FORMERLY LABELED BUILDING 8).

NO MISSILES OR MISSILE COMPONENTS ARE OBSERVED. HOWEVER, LARGE AMOUNTS OF EQUIPMENT AND MATERIEL ARE OBSERVED IN OPEN STORAGE THROUGHOUT THE PLANT AREA. APPROXIMATELY 30 RAIL CARS (APPROXIMATELY 75 FT LONG) ARE LOCATED IN THE NORTH PRODUCTION PLANT.

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TOP SECRET CHESS RUFF

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(SEE ATTACHMENT)

KURUMOCH ROCKET ENGINE TEST FACILITY

UR 5331N 04949E

FACILITY IS CLOUD COVERED EXCEPT FOR THE WESTERN AND NORTHERN EDGES. LARGE TEST STAND NO 2 SHOWS NO SIGNIFICANT CHANGE SINCE [REDACTED] JUN 65. NO OTHER MISSILE-RELATED ACTIVITY OR CHANGES OBSERVED.

NOVOSIBIRSK AIRFRAME PLANT CHKALOV 153

UR 5504N 08259E

NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] MAY-JUN 65. NO MISSILES, MISSILE COMPONENTS OR LONG RAIL CARS VISIBLE.

NO AIRCRAFT ON FLYAWAY FIELD.

AIRCRAFT AT PLANT -- 1 BEAGLE, 26 FIREBAR, 1 PROBABLE FIREBAR, 1 FAGOT/FRESCO, 2 CAB, 1 CAMP, 1 COLT, 1 HOUND AND 2 LIAISON.

FERGANA ROCKET ENGINE TEST FACILITY

UR 4027N 07147E

NO ROCKET ENGINE TEST FACILITY OBSERVED AT GIVEN COORDINATES (WHICH IS THE LOCATION FOR THE FERGANA PETROLEUM REFINERY) OR IN THE 15 BY 10 NM AREA OF TERRAIN AROUND THE TARGET AREA WHICH WAS COVERED BY PHOTOGRAPHY.

BORDEAUX MISSILE DEVELOPMENT

FR 4450N 00046E

ALL MISSILE-RELATED FACILITIES IN THE BORDEAUX AREA ARE CLOUD COVERED EXCEPT THE POUDRERIE NATIONALE DES SERVICE DES POUDRES SOLID ROCKET PROPELLANT PLANT AT SAINT-MEDARD-EN-JALLES (4452N 00044E). IN THE PORTIONS OF THE PLANT OBSERVED, TENTATIVE IDENTIFICATION CAN BE MADE OF THE PROPELLANT MIXING SECTION, THE CASE

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PREPARATION SECTION, AND A SMALL MOTOR TEST AREA ON THE NORTH EDGE OF THE PLANT AT THE SITE OF AN OLD SHELL TESTING RANGE. CLOUDS AND CLOUD SHADOW PRECLUDE IDENTIFICATION OF OTHER PLANT FACILITIES.

VLADIMIR SUBMARINE BASE

UR 4355N 13528E

7 NM NORTH OF VLADIMIR.

FACILITIES INCLUDE 3 PIERS (2 ARE USED TO ACCOMMODATE SUBMARINES), AN OPERATIONS/SUPPORT AREA WITH 15 BUILDINGS, AN ADMINISTRATION AREA WITH 8 BUILDINGS, A BARRACKS AREA WITH 11 BUILDINGS, A STORAGE AREA WITH 3 BUNKERS, 7 BUILDINGS AND AT LEAST 2 ENTRANCES INTO A HILL. A SECOND DOUBLE-SECURED AREA HAS A WIRE FENCE FOR EXTERNAL SECURITY AND HAS A BOARD FENCE PROVIDING PERIMETER SECURITY ALONG THAT PORTION OF THE BOUNDARY OF THE INSTALLATION NOT ADJOINING HILLSIDE. THIS AREA CONTAINS A LARGE BUNKER, 2 BUILDINGS AND 2 ENTRANCES INTO THE SIDE OF THE HILL.

VESSELS -- 2 W/R-CLASS SS, 1 PROBABLE L-II CLASS OSS, AND 1 PROBABLE SHCH-IV-CLASS OSS WHICH IS AGROUND BETWEEN THE 2 SUBMARINE PIERS. A DAM HAS BEEN BUILT PERPENDICULAR TO EACH OF THE PIER APPROACHES AND LEADING TO EACH SIDE OF THE GROUNDED SUBMARINE.

NO MISSILE OR NUCLEAR STORAGE AREAS OBSERVED.

VLADIVOSTOK NAVAL BASE AND SHIPYARD 202

UR 4306N 13156E

VESSELS -- 2 G-CLASS SSB, 1 PROBABLE G-CLASS SSB WITH SAIL REMOVED, 1 POSSIBLE W-LONGBIN-CLASS SSG IN TRANSPORTER DOCK, 1 POSSIBLE Z-CLASS SS, 1 PROBABLE W-CLASS SS, 1 UNIDENTIFIED SS IN FLOATING DOCK, 3 UNIDENTIFIED SS, AND 1 POSSIBLE SS, 1 POSSIBLE CL IN GRAVING DOCK, 2 POSSIBLE SKORYY-CLASS DD, 1 PROBABLE KOTLIN-CLASS DD, 1 POSSIBLE GORDYY-CLASS AGT, 1 UNIDENTIFIED DD, 2 PROBABLE RIGA-CLASS DE, 3 PETYA-CLASS PCE, 1 PROBABLE POTI-CLASS PC, 1 PROBABLE MISSILE TARGET BARGE AND NUMEROUS MERCHANT SHIPS IN GOLDEN HORN BAY.

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NO APPARENT CHANGE IN FACILITIES SINCE
MAY-JUN 65.

NO NUCLEAR OR MISSILE STORAGE AREAS OBSERVED.

HAZE AND SCATTERED CLOUDS OVER SEVERAL AREAS OF
SHIPYARD AND NAVAL BASE.

SOVETSKAYA GAVAN SUBMARINE BASE

UR 4902N 14016E

NO APPARENT CHANGE IN FACILITIES SINCE
APR-MAY 65.

NO NUCLEAR OR MISSILE STORAGE AREAS OBSERVED.

VESSELS -- 6 W/R-CLASS SS AND 1 PROBABLE SHCH-IV-CLASS
SS AT SUBMARINE BASE, 1 W/R-CLASS SS, 2 SKORYY-CLASS DD
AND 1 REARMED RIGA-CLASS DE AT SHIPYARD NO 263, 1
PROBABLE T-43-CLASS MSF AT SHIPYARD NO 1, 1 PROBABLE
MISSILE TARGET BARGE NEAR THE RAIL BRIDGE WEST OF THE
TORPEDO DEPOT, 1 SVERDLOV-CLASS CL, 3 SKORYY-CLASS DD,
4 REARMED RIGA-CLASS DE, 2 T-43-CLASS MSF AND 1
LIBAU-CLASS AGCL AT THE TORPEDO DEPOT, 1 T-58-CLASS MSF
AND 1 UNARMED SKORYY-CLASS DD BERTHED NEAR THE POL
STORAGE AREA NORTH OF THE PT BOAT BASE. ONE
KOMAR-CLASS PTG, 1 P-6 (T)-CLASS PT, AND 2 P-6 (T)-
CLASS PT LESS REFLECTORS ARE ON THE QUAY AT THE PT
BOAT BASE. TWO P-6 (T) REFLECTOR ARRAYS CAN BE SEEN ON
A PIER AT THE BASE. ONE REARMED RIGA-CLASS DE IS AT
ANCHOR IN THE BAY SOUTH OF MYS ALEKSANDRA AND 3
KOMAR-CLASS PTG ARE BERTHED AT THE NORTHERN PIER.
THIRTY-FIVE LARGE AND MEDIUM MERCHANT VESSELS OBSERVED
THROUGHOUT THE HARBOR AREA.

LENINGRAD AMM/SAM LAUNCH COMPLEXES

UR 5955N 03020E

NO NEW OR PREVIOUSLY UNREPORTED AMM/SAM LAUNCH OR
ELECTRONIC FACILITIES OBSERVED WITHIN THE AREA COVERED
BY PHOTOGRAPHY. THIS AREA EXTENDS APPROXIMATELY 14 NM
NE TO SW AND 6 NM EAST TO WEST OF THE LENINGRAD NW
AMM/SAM LAUNCH COMPLEX.

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LENINGRAD NORTHWEST AMM/SAM LAUNCH COMPLEX UR 6027N 02944E

THE COMPLEX IS OBSERVED ON CLEAR, GOOD STEREO PHOTOGRAPHY.

CAMOUFLAGE, APPLIED SINCE MAY 65, COVERS A PORTION OF THE REVETTED CENTER POSITION OF THE ELECTRONIC SITE AND THE AREAS WHERE VANS WERE PREVIOUSLY OBSERVED ADJACENT TO RADAR POSITIONS 1, 3 AND 4. A MOTTLED PATTERN HAS BEEN APPLIED TO SEGMENTS OF THE ELECTRONIC SITE SERVICE ROADS.

POSITIONS 1, 3 AND 4 REMAIN OCCUPIED BY RADARS, PRESUMABLY GUIDANCE. THEY ARE THE SAME AS THE GUIDANCE RADARS AT SARY-SHAGAN, LAUNCH AREA A, ELECTRONIC SITE B. THE RADAR SET IS COMPOSED OF SEVERAL CUT PARABOLIC SECTIONS BUT THE EXACT NUMBER AND ARRANGEMENT IS UNDETERMINED. THE ANTENNAS ARE ARRANGED IN A TIGHT GROUP, MUCH IN THE SAME MANNER AS THE PEEL GROUP. IT IS NOT POSSIBLE TO ISOLATE THE INDIVIDUAL ANTENNAS.

A LAUNCHER IS EMPLACED AT EACH LAUNCH POSITION OF SITES C, D AND E. THERE ARE NONE AT SITES A AND B. THE LAUNCHERS APPEAR TO HAVE A RAIL APPROXIMATELY LENGTH MOUNTED ON A SOLID BASE. SHADOWS OF SOME OF THEM INDICATE THE POSSIBLE PRESENCE OF A BLAST DEFLECTOR. SEVERAL OF THE LAUNCHERS ARE ORIENTED WITH THEIR LONG AXIS ALIGNED TOWARD THE ACTIVE END OF THE MISSILE READY BUILDING, OTHERS ARE ORIENTED IN VARYING DIRECTIONS.

A PIECE OF EQUIPMENT RESEMBLING THE LAUNCHER IS SITUATED ON THE PERIMETER ROAD ADJACENT TO ONE END OF EACH MISSILE READY BUILDING AT LAUNCH SITES D AND E. A VAN/VEHICLE IS POSITIONED ON THE PERIMETER ROAD PERPENDICULAR TO THE CENTER OF THE MISSILE READY BUILDINGS AT LAUNCH POSITIONS D-6, E-3, TWO AT E-4, AND ONE EACH AT E-5 AND E-6. AN UNIDENTIFIED OBJECT MEASURING APPROXIMATELY IS IN FRONT OF AND PARALLEL TO THE MISSILE READY BUILDING AT LAUNCH POSITION D-1, AND ANOTHER MEASURING APPROXIMATELY 50 BY 10 FT IS ADJACENT TO THE SOUTHERN END OF THE BUILDING AT LAUNCH POSITION E-1.

LAUNCH SITES A AND B ARE APPARENTLY BEING MODIFIED TO CONFORM TO CHANGES AT SITES C, D AND E. FIVE

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

25X1
25X1

STRIATIONS EXTENDED ACROSS THE PERIMETER ROAD FROM THE MISSILE READY BUILDINGS OF SITES A AND B IN MAY 65 AND NOW 2 REMAIN AT SEVERAL OF THE POSITIONS. THE ROAD NOW APPEARS SMOOTH WHERE THE PROBABLE RAILS WERE REMOVED.

MODIFICATION OF THE REVETTED AREAS BETWEEN THE BUILDINGS AND THE LAUNCH POINTS IS APPARENTLY UNDERWAY AT EACH LAUNCH POSITION OF SITE B.

TWENTY-THREE OF THE VEHICLES/PIECES OF EQUIPMENT REMAIN IN THE VEHICLE PARK LOCATED NORTHWEST OF LAUNCH SITE A. FORTY-EIGHT WERE THERE IN MAY 65 AND 60 WERE OBSERVED IN MAR 65

25X1

THE CONDUIT EXTENDING FROM THE COMPLEX CONTROL CENTER TO THE NE OUTRIGGER POSITION HAS BEEN REMOVED SINCE MAY 65 AND A MAJOR PORTION OF THAT EXTENDING TO THE SW OUTRIGGER POSITION APPEARS TO HAVE BEEN REMOVED. THERE IS NO APPARENT CHANGE IN THE STRUCTURES AT THE OUTRIGGER POSITIONS.

A SQUARE BUILDING IS UNDER CONSTRUCTION NEAR THE SE CORNER OF THE LARGEST BUILDING IN THE SUPPORT AREA AND A NEW BUILDING OR SHED IS LOCATED JUST NE OF THE SUPPORT AREA. THESE BUILDINGS WERE NOT PRESENT IN MAY 1965.

UNIDENTIFIED VEHICLES ARE OBSERVED IN MOTION IN THE VICINITY OF THE CONTROL CENTER AND OTHERS ARE PARKED IN THE SUPPORT AREA.

NO MISSILES ASSOCIATED WITH THE COMPLEX WERE IDENTIFIED.

THE SA-3 SAM SITE WITHIN THE COMPLEX IS OCCUPIED AND CAMOUFLAGED.

(SEE ATTACHMENT)

25X1

TALLINN AMM/SAM LAUNCH COMPLEX

UR 5924N 02419E

25X1

COMPLEX IS OBSERVED ON CLEAR, GOOD, STEREO PHOTOGRAPHY.

LAUNCH SITES A AND B ARE IN A LATE CONSTRUCTION STAGE, SITE C IN A MID-STAGE, SITE D IN AN EARLY TO MID-STAGE,

25X1

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

AND SITE E IN AN EARLY STAGE.

AT SITE A, THE RAIL-LIKE VEE PATTERN IS APPARENT IN LAUNCH POSITIONS 2 AND 3. DARK MATERIAL IS BEING APPLIED TO THE SURFACE OF OTHER POSITIONS OF SITE A, AND TO EACH POSITION OF SITE B AND C.

SURFACING OF THE SPECIALLY PREPARED 90-FT APPROACH TO EACH POSITION OF SITE A, TO 4 OF THE POSITIONS OF SITE C, AND TO 2 OF THOSE AT SITE D HAS BEEN ACCOMPLISHED SINCE [REDACTED] APR-MAY 65.

REVTMENT WALLS ENCLOSING THE CENTER PROBABLE CONTROL POSITIONS OF SITES A, B, AND C HAVE BEEN COMPLETED AND SURFACED. THE PREVIOUSLY OBSERVED 20-BY 7-FT STRUCTURE WITHIN THESE WALLS NOW APPEARS TO HAVE BEEN COVERED. A RECTANGULAR BUILDING HAS BEEN NEWLY CONSTRUCTED LEFT OF THE ENTRANCE TO THE CENTER POSITIONS OF THESE 3 SITES, AND A STRUCTURE, POSSIBLY AN ELEVATED POSITION, IS SITUATED TO THE RIGHT OF THESE ENTRANCES. UNIDENTIFIED PROBABLE CONSTRUCTION EQUIPMENT IS SITUATED ON THE CENTRAL REVETTED HARDSTAND AT SITE C. PROBABLE CABLE SCARRING EXTENDS FROM THE CENTER POSITIONS ACROSS THE ROADS TOWARD EACH LAUNCH POINT OF SITES A AND B.

A SMALL STRUCTURE IS LOCATED JUST SE OF THE CENTER REVTMENT OF SITES A, B AND C, AND A SCAR LEADS FROM THE CENTER POSITION TO THE STRUCTURE AT SITE A. PILES OF DARK MATERIAL ARE ALONG THE SERVICE ROADS OF SITE C.

THE EXCAVATION WITHIN EACH LAUNCH POSITION OF SITE D HAS BEEN SURROUNDED BY A WHITE MATERIAL, AND A TROUGH-LIKE APPROACH TO EACH EXCAVATION EXTENDS ALONG THE CENTER OF THE RECTANGULAR PAD AREA. PILES OF LIGHT-TONED MATERIAL ARE ON THE SURFACE OF EACH LAUNCH POSITION AT SITE C.

A WHITE RECTANGULAR OBJECT NEWLY OBSERVED NEAR THE EXCAVATION OF EACH LAUNCH POSITION AT SITE E MAY BE A LINING FOR THE EXCAVATION.

NO CHANGE HAS OCCURRED SINCE APR 65 IN THE CONSTRUCTION STATUS OF THE CENTER POSITIONS AT SITES D AND E. A STRUCTURE COMPARABLE TO THE [REDACTED] STRUCTURE PREVIOUSLY OBSERVED AT SITES A, B AND C IS NEWLY OBSERVED AT SITE E.

VEHICLES ARE OBSERVED ON THE SERVICE ROADS OF SITES C AND D. CONSTRUCTION OF TWO LARGE BUILDINGS WEST OF THE

25X1

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TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

LAUNCH AREA MAIN ROAD HAS PROGRESSED SINCE [REDACTED] AUG 65. REVETMENT WALLS IN THIS AREA HAVE BEEN REARRANGED SINCE APR 65, APPARENTLY INDICATING A CHANGE OF PLANS FOR LOCATION OF THE NEW BUILDINGS. CONSTRUCTION CONTINUES ON A PROBABLE APRON TO SERVE THESE BUILDINGS ON THE WESTERN SIDE.

CONSTRUCTION ACTIVITY REPORTED AT THE EASTERN END OF THE SUPPORT AREA IN AUG 65, IS NOW CONFIRMED AS A NEW RECTANGULAR BUILDING APPARENTLY IN A LATE CONSTRUCTION STAGE.

CONSTRUCTION AND SURFACING OF THE REVETMENT WALLS OF THE ELECTRONIC SITE IS NOW COMPLETED. SERVICE ROADS WITHIN THIS SITE HAVE BEEN IMPROVED SINCE APR 65. A NEW SMALL UNIDENTIFIED STRUCTURE IS LOCATED JUST WEST OF THE CENTER POSITION.

NO MISSILES, MISSILE-RELATED EQUIPMENT OR RADAR OBSERVED WITHIN THE COMPLEX.

(SEE ATTACHMENT)

NOVAYA MEZINOVKA REGIONAL MIL STOR INSTLN UR 5331N 02655E

NO APPARENT CHANGE IN PERMANENT FACILITIES IN CLOUD-FREE PORTIONS.

EQUIPMENT OBSERVED WITHIN STORAGE AREA INCLUDES --3 POSSIBLE CANVAS-COVERED SS-5 TRANSPORTERS WITH PRIME MOVERS, 5 POSSIBLE SS-5 MISSILE TRANSPORTERS (UNCOVERED), APPROXIMATELY 90 SS-4-TYPE MISSILE TRANSPORTERS, 1 UNIDENTIFIED-TYPE PROBABLE MISSILE TRANSPORTER (UNCOVERED), APPROXIMATELY 20 POSSIBLE SS-4 ERECTORS, 3 PROBABLE SS-1 SCUD TEL VEHICLES, AT LEAST 20 PROBABLE SS-1 SCUD TRANSPORTERS, 7 PROBABLE SS-5 FUEL TRAILERS, 167 PROBABLE SS-4 FUEL TRAILERS, 325 PROBABLE SS-4 OXIDIZER TRAILERS, 2 PROBABLE SS-5 MOBILE SERVICE PLATFORMS, 50 PROBABLE SS-4-TYPE MOBILE SERVICE PLATFORMS, 41 STACKS OF PROBABLE LAUNCH STANDS, 15 TRUCK-MOUNTED CRANES, AT LEAST 7 POSSIBLE TRUCK-MOUNTED DECONTAMINATION SHOWER UNITS, APPROXIMATELY 350 PROBABLE VAN TRUCKS, 36 SMALL TRAILERS, 27 PROBABLE MISSILE CHECKOUT TENTS, AND NUMEROUS ITEMS OF UNIDENTIFIED EQUIPMENT/MATERIAL SCATTERED THROUGHOUT THE INSTALLATIONS.

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**Air
Facilities**

TOP SECRET CHESS RUFF

MISSION 4022 1-4 OCT 65

AIR FACILITIES

KOMSOMOLSK AIRFRAME PLT ORDZHONIKIDZE 126 UR 5036N 13705E

CONSTRUCTION CONTINUES ON THE LARGE SUB-ASSEMBLY BUILDING REPORTED ON [REDACTED] JAN 65. THE BUILDING IS NOW 50 PERCENT COMPLETE. IN THE NORTHWEST SECTION OF AIRFRAME PLANT 126 (THE SECTION FORMERLY KNOWN AS AIRFRAME PLANT 130), ALONG THE NORTHERN SECURITY FENCE ARE 16 PROBABLE MISSILE AIRFRAMES LOCATED ADJACENT TO A SMALL SECURED AREA, WHICH CONTAINS 11 LARGE CRATES AND 3 SMALL CRATES. THE AIRFRAMES [REDACTED]. THE LARGE CRATES ARE 40 [REDACTED] THE SECURED AREA IS SERVED BY A LOOP ROAD AND CONTAINS 2 SMALL BUILDINGS SERVED BY A CONCRETE APRON. IN THE SOUTHEAST AREA OF AIRFRAME PLANT 126 NEAR THE FUEL STORAGE FACILITY ARE 12 OTHER CRATES [REDACTED]

AIRCRAFT -- 19 FITTER, 1 PARTIALLY ASSEMBLED FITTER, 1 FLASHLIGHT/FIREBAR, 39 FAGOT/FRESCO, 6 CAB, 2 COLT, 2 LIAISON AND 2 HOUND.

(SEE ATTACHMENT)

IRKUTSK AIRFRAME PLANT 39

UR 5221N 10412E

THE SUB-ASSEMBLY BUILDING UNDER CONSTRUCTION SINCE [REDACTED] SEP 63 IS NOW NEARING COMPLETION. NO SIGNIFICANT CHANGE IN OTHER FACILITIES.

AIRCRAFT -- 39 BREWER/MAESTRO AND 3 CAB.

AKHTUBINSK/VLADIMIROVKA AIRFIELD

UR 4818N 04611E

AIRCRAFT AT AIRBORNE WEAPONS COMPLEX -- 1 BADGER, 6 FITTER, 5 FISHPOT, 21 FISHBED, 5 FLASHLIGHT/FIREBAR, 2 FAGOT/FRESCO, 4 MANDRAKE, 1 UNIDENTIFIED SMALL SWEEP-WING AND 1 SMALL STRAIGHT-WING.

AIRCRAFT AT MAIN TAXIWAY AND PARKING APRONS -- 2 BEAR, 6 BLINDER, 19 BADGER, 8 BEAGLE, 9 FLASHLIGHT/FIREBAR, 7

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

FISHBED, 4 PROBABLE FISHBED, 4 FARMER, 1 CAMEL, 2 CAT/CUB, 1 COKE, 6 CRATE, 3 CAB, 2 PROBABLE COLT, 6 HOUND AND 1 SMALL STRAIGHT-WING.

AIRCRAFT AT NEW PARKING APRON -- 8 BADGER, 12 BEAGLE, 34 MANDRAKE, 48 FAGOT/FRESCO AND 2 CAB.

AIRCRAFT AT FIRING-IN BUTT -- 1 DERELICT MANDRAKE.

AIRCRAFT AT TEST AREA -- 2 DERELICT BULL, 4 DERELICT BEAGLE, 1 DERELICT CRATE, 24 DERELICT FAGOT/FRESCO AND 2 DERELICT FLASHLIGHT/FIREBAR.

THE FOLLOWING RADAR ANTENNAS CAN BE IDENTIFIED IN THE AIR WARNING RADAR FACILITY LOCATED APPROXIMATELY 2,000 FT NE OF THE OLDER MAIN RUNWAY -- 2 BACKNET, 2 SIDE NET, 2 BAR LOCK, 1 STONE CAKE, 1 TOKEN, 1 PROBABLE SPOON REST AND 1 MOBILE HIGH FREQUENCY FACILITY AND SEVERAL SCATTERED VEHICLES INDICATING ADDITIONAL ANTENNAS TOO SMALL TO BE IDENTIFIED.

NO ADDITIONAL CONSTRUCTION OBSERVED SINCE SEP 65.

MOSCOW CENTRAL INSTITUTE OF AERO-ENGINES UR 5534N 03756E BONUS 1
6 NM WEST OF RAMENSKOYE FLIGHT TEST CENTER.

THE INSTITUTE, WHICH IS CLOSE TO MOSCOW/MYACHKOVO AIRFIELD, IS SURROUNDED BY A SECURITY FENCE AND IS RAIL SERVED. FACILITIES INCLUDE A LARGE ATMOSPHERIC AND ENVIRONMENTAL TEST BUILDING, A GAS DYNAMICS FACILITY, 5 LARGE WORKSHOPS, 2 ENGINE TEST CELL BUILDINGS, EACH CONTAINING 4 LARGE L-TYPE TEST CELLS WITH SILENCERS, 2 LARGE TRANSFORMER YARDS, 2 STEAMPLANTS, ONE OF WHICH IS UNDER CONSTRUCTION, AN UNIDENTIFIED AREA, AND A LARGE ADMINISTRATION AND SUPPORT AREA.

(SEE ATTACHMENT)

**Nuclear
Energy**

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**Naval
Activity/
Ports**

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

NAVAL ACTIVITY/PORTS

HALONG PORT FACILITIES

ID 0340S 12810E

NO CHANGES IN FACILITIES SINCE [REDACTED] JUN 63.

VESSELS -- 2 POSSIBLE BARGES.

[REDACTED]

SELATAN SEAPLANE STATION

ID 0530S 12733E

NO SEAPLANE STATION OR FACILITIES OF ANY TYPE OBSERVED.

[REDACTED]

AMBOINA PORT FACILITIES

ID 0342S 12812E

FACILITIES INCLUDE 1 OFFSHORE WHARF, 1 PONTON WHARF AND 1 PIER.

VESSELS -- 1 UNIDENTIFIED SMALL VESSEL AND NUMEROUS SMALL CRAFT.

[REDACTED]

TERNATE PORT FACILITIES

ID 0047N 12723E

FACILITIES INCLUDE 1 OFFSHORE WHARF UNDER CONSTRUCTION AND 1 PIER.

VESSELS -- 1 MERCHANT VESSEL AND 3 SMALL CRAFT.

[REDACTED]

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25X1

25X1

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25X1

**Biological/
Chemical
Warfare**

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**Electronics/
Communications**

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

ELECTRONICS/COMMUNICATIONS

SUKHUMI GUIDED MISSILE RADAR FACILITY UR 4300N 04102E
5-NM-RADIUS SEARCH AREA COVERED BY CLEAR PHOTOGRAPHY.
NO NEW GUIDED MISSILE RADAR FACILITIES OBSERVED.

TYURATAM INTERFEROMETER SITE UR 4542N 06318E
CONSTRUCTION CONTINUES ON THE L-SHAPED INTERFEROMETER.
THE ANTENNA BUILDINGS AND THE CONTROL BUILDING APPEAR
COMPLETE, BUT THERE ARE NO ANTENNAS ON THE MOUNTS.

SHUANG-CHENG-TZU MTR POSS DN RGE INSTR PT CH 4159N 09608E
NO INSTRUMENTATION OBSERVED ON FAIR, CLEAR PHOTOGRAPHY.

TYURATAM RADIO STATION 2 UR 4536N 06316E
NO NEW CONSTRUCTION OR CHANGE OBSERVED :

TYURATAM RADIO STATION 3 UR 4538N 06320E
STATION CONSISTS OF A TRANSMITTER BUILDING, COOLING
POND, AND LARGE SELF-SUPPORTING LATTICE TOWER UNDER
CONSTRUCTION. NO OTHER MAST OR ANTENNAS ARE VISIBLE.

KIMCHAEK SUSPECT RADAR SITE KN 4041N 12918E
FOUR COASTAL DEFENSE POSITIONS LOCATED ON TOP OF HILL.
NO RADAR OBSERVED.

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TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

OKHOTSK SUSPECT TROPOSCATTER SITE

UR 5925N 14324E

UNIDENTIFIED CONSTRUCTION ACTIVITY CONSISTS OF 13 CIRCULAR EXCAVATIONS, 2 LARGE RECTANGULAR BUILDINGS, AND APPROXIMATELY 7 SMALL BUILDINGS. NO TROPOSCATTER ANTENNA OBSERVED.

TAYMYLYR SUSPECT TROPOSCATTER SITE

UR 7242N 12158E

EASTERN AND NORTHERN PART OF SEARCH AREA COVERED BY VERY CLOUDY PHOTOGRAPHY. NO TROPOSCATTER SITE OR OTHER ANTENNAS OBSERVED.

SANGAR SUSPECT TROPOSCATTER SITE

UR 6354N 12734E

NO TROPOSCATTER ANTENNAS OBSERVED WITHIN 15 NM OF REFERENCED COORDINATES.

UNIDENTIFIED CONSTRUCTION ACTIVITY CONSISTS OF 16 SMALL CIRCULAR EXCAVATIONS IN 4 ROWS OF 4 EXCAVATIONS EACH, 2 LARGE, RECTANGULAR FLAT-ROOFED BUILDINGS AND APPROXIMATELY 10 SMALL BUILDINGS NEAR THE EXCAVATIONS.

ZHIGANSK SUSPECT TROPOSCATTER SITE

UR 6640N 12326E

UNIDENTIFIED CONSTRUCTION ACTIVITY CONSISTS OF 8 SMALL CIRCULAR EXCAVATIONS IN 4 ROWS OF 2 EACH AND 2 LARGE RECTANGULAR BUILDINGS. NO TROPOSCATTER ANTENNAS OBSERVED.

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

APUKA TALL KING FACILITY

UR 6026N 16941E

NO APPARENT CHANGE EXCEPT FOR ABSENCE OF THE HORIZONTAL
STORAGE TANKS REPORTED ON [REDACTED] APR-MAY 65.

SMIDOVICH TALL KING FACILITY SEARCH

UR 7456N 05625E

CENTRAL THIRD OF SEARCH AREA COVERED. NO TALL KING
OBSERVED.

NIZHNIYE KRESTY TALL KING-AW RADAR FAC

UR 6845N 16121E

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR
EQUIPMENT OBSERVED.

OSTROV VIZE TALL KING-AW RADAR FAC 2 SRCH UR 7940N 07640E

WEST 75 PERCENT OF ISLAND COVERED. NO TALL KING
OBSERVED IN CLOUD-FREE AREAS.

VERKNIY INEGEN TALL KING FACILITY SEARCH UR 5021N 08636E

NO TALL KING OBSERVED IN CLOUD-FREE PORTIONS OF SEARCH
AREA.

AREA 80 PERCENT CLOUD COVERED.

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25X1

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT. 65

RADAR POSITIONS.

MYS IZBUSHECHNYY RADAR TRACKING FACILITY UR 6031N 03237E

FACILITY CONTAINS OF AN H-SHAPED ROAD PATTERN SIMILAR TO THAT OF PREVIOUSLY KNOWN H-SHAPED RADAR FACILITIES. NO TOWERS OBSERVED. THE CENTRAL CONTROL AREA IS PRESENT BUT UNREVETTED AND 2 BUILDINGS COMPLETE THE MAIN OPERATIONS AREA. A ROAD TERMINATES AT AN UNIDENTIFIED POSITION IMMEDIATELY WEST AND INSIDE THE SECURITY FENCE. THE UNIDENTIFIED POSITION IS CONNECTED BY A DITCH TO THE MAIN OPERATIONS AREA. CONSTRUCTION CONTINUES AT THE SUPPORT AREA, WHICH CONSISTS OF 6 BUILDINGS (3 ARE STILL UNDER CONSTRUCTION).

AYAGUZ COMMUNICATIONS FACILITIES UR 4757N 08022E BONUS 1

2 NM SW OF AYAGUZ.

TWO SECURED COMMUNICATIONS FACILITIES APPROXIMATELY 0.75 NM APART EACH CONTAIN A CENTRAL CONTROL BUILDING. SEVERAL VERTICAL MASTS SURROUND EACH CONTROL BUILDING.

AYAGUZ TALL KING-AW RADAR FACILITY UR 4756N 08023E BONUS 2

2 NM WSW OF AYAGUZ AND EASTERN EDGE OF SERGIOPOL AT 47-56-30N 080-23-05E.

SECURED FACILITY CONTAINS AN ANTENNA BUILDING, SUPPORT BUILDING, AND A GENERATOR BUILDING. ASSOCIATED WITH THE TALL KING FACILITY ARE 1 UNOCCUPIED AND 2 OCCUPIED RADAR MOUNDS.

TOP SECRET CHESS RUFF
MISSION 4022 1-4 OCT 65

VORKUTA TALL KING FACILITY

UR 6731N 06408E BONUS 3

2.5 NM NE OF VORKUTA.

SINGLE-SECURED FACILITY INCLUDES 1 TALL KING ANTENNA, 1 ANTENNA BUILDING, 1 SUPPORT BUILDING, 1 GENERATOR BUILDING, AND A GROUP OF HORIZONTAL FUEL STORAGE TANKS.

A SUPPORT FACILITY UNDER CONSTRUCTION IS LOCATED 500 FT SOUTH OF THE TALL KING.

KANDALAKSHA AD HQ CONTROL BUNKER

UR 6710N 03220E BONUS 4

2.5 NM NW OF KANDALAKSHA.

SECURED EARTH-COVERED BUNKER AND AT LEAST 3 SMALL SUPPORT BUILDINGS OF SAME APPROXIMATE SIZE AND DESIGN AS THOSE PREVIOUSLY REPORTED AT BRYANSK, KRASNOVODSK, ORSK, GROZNY AND MURMASHI AIR DEFENSE HQ.

SOVETSKAYA GAVAN TALL KING-AD HQ FACILITY UR 4903N 14016E BONUS 5

2.5 NM NE OF SOVETSKAYA GAVAN/VANINO AIRFIELD.

FACILITY CONTAINS 1 TALL KING ANTENNA, 1 ANTENNA BUILDING, 1 SUPPORT BUILDING, 1 GENERATOR BUILDING, AND 1 PROBABLE MAINTENANCE BUILDING.

AN AIR WARNING RADAR FACILITY IS LOCATED 9 NM SSE OF THE TALL KING AND CONTAINS 1 PROBABLE BIG MESH AND 1 PROBABLE ROCK CAKE RADAR, 2 PROBABLE ELECTRONIC VANS AND APPROXIMATELY 5 SUPPORT BUILDINGS.

ANOTHER AW RADAR FACILITY IS LOCATED APPROXIMATELY 5.5 NM WEST AND CONTAINS A BUNKERED CONTROL AREA AND SEVERAL UNIDENTIFIED RADAR ANTENNAS.